

U.S. Application No. 10/781,677

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A data processing method comprising steps of:
generating a second database as a duplicate of a first database allowing access from a program and after completion of the generation, switching a program access allowance from the first database to the second database;
after switching the program access allowance, storing a history of a processing of the program to the second database as a processing history and ~~allowing a predetermined input/output access to~~ executing reorganization of the first database in parallel with the storing, the processing history being stored during the execution of the ~~input/output access~~ reorganization;
updating the first database based on the processing history stored during the ~~input/output access~~ reorganization; and
upon completion of the updating of the first database according to the processing history stored, switching the program access allowance from the second database to the first database.
2. (currently amended) A data processing device comprising:
means for generating a second database as a duplicate of a first database allowing access from a program;
means for switching a program access allowance from the first database to the second database after completion of the generation;

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means for storing a history of a processing of the program to the second database as a processing history and ~~allowing a predetermined input/output access to executing reorganization of the first database in parallel with the storing after switching the program access allowance, the processing history being stored during the execution of the input/output access reorganization;~~

means for updating the first database based on the processing history stored during the ~~input/output access reorganization;~~ and

means for switching the program access allowance from the second database to the first database upon completion of the updating of the first database according to the processing history stored.

3. – 21. (canceled)

22. (currently amended) A computer-readable medium storing a data processing program comprising codes, wherein the program, when executed on a data processing device, causes causing the data processing device to perform a method comprising the steps of:

generating a second database as a duplicate of a first database allowing access from a program and after completion of the generation, switching a program access allowance from the first database to the second database;

after switching the program access allowance, storing a history of a processing of the program to the second database as a processing history and ~~allowing a predetermined input/output access to executing reorganization of the first database in parallel with the storing, the processing history being stored during the execution of the input/output access reorganization;~~

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updating the first database based on the processing history stored during the ~~input/output access reorganization~~; and

upon completion of the updating of the first database according to the processing history stored, switching the program access allowance from the second database to the first database.

23. (currently amended) A data processing method according to claim 1, further comprising the steps of:

determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed for the program seeking the ~~input/output~~ access; and

if it is determined that ~~input/output~~ access to the first database in a replica operation mode is allowed for said program, executing said ~~input/output~~ access to the first database in parallel with the storing, but if it is determined that ~~input/output~~ access to the first database in a replica operation is not allowed for said program, causing an error and disabling access to the first database;

wherein the replica operation mode is a mode in which program access allowance has been switched from the first database to the second database;

wherein said step of determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed includes a step of reading an access allowance flag from a table using the name of the program seeking the ~~input/output~~ access as a key; and

wherein the access allowance flag indicates whether ~~the input/output~~ access to the first database is allowed for the program seeking the ~~input/output~~ access.

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24. (currently amended) A data processing device according to claim 2, further comprising:

means for determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed for the program seeking the ~~input/output~~ access;

means, if it is determined that ~~input/output~~ access to the first database in a replica operation mode is allowed for said program, for executing said ~~input/output~~ access to the first database in parallel with the storing; and

means, if it is determined that ~~input/output~~ access to the first database in a replica operation is not allowed for said program, for causing an error and disabling access to the first database;

wherein the replica operation mode is a mode in which program access allowance has been switched from the first database to the second database;

wherein said means for determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed includes means for reading an access allowance flag from a table using the name of the program seeking the ~~input/output~~ access as a key; and

wherein the access allowance flag indicates whether ~~the input/output~~ access to the first database is allowed for the program seeking the ~~input/output~~ access.

25. (currently amended) A data processing program computer-readable medium according to claim 22, wherein the program₁ when executed on a data processing device₁ causes the data processing device to further perform:

determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed for the program seeking the ~~input/output~~ access; and

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if it is determined that ~~input/output~~ access to the first database in a replica operation mode is allowed for said program, executing said ~~input/output~~ access to the first database in parallel with the storing, but if it is determined that ~~input/output~~ access to the first database in a replica operation is not allowed for said program, causing an error and disabling access to the first database;

wherein the replica operation mode is a mode in which program access allowance has been switched from the first database to the second database;

wherein said step of determining whether ~~the input/output~~ access to the first database in a replica operation mode is allowed includes a step of reading an access allowance flag from a table using the name of the program seeking the ~~input/output~~ access as a key; and

wherein the access allowance flag indicates whether ~~the input/output~~ access to the first database is allowed for the program seeking the ~~input/output~~ access.